



Professional Power Amplifier

Embedded software: high-quality professional power amplifier embedded software V5.75

TX-87500F



Description:

Installed in the weak current room or sub-control computer room, built-in high-fidelity power amplifier, used for program broadcast and local broadcast in halls, corridors, outdoors and other areas.

Feature:

- * Adopt 4.3-inch capacitive touch screen, exquisite display, graphic operation interface, and simple operation.
- * Based on 3-layer network transmission technology, compatible with standard network protocols, and support 48KHz/16-bit network audio transmission across the network.
- * Support equipment management through PC client software, view system equipment information, equipment status in real time, and set equipment parameters (IP address, equipment name, EQ parameters, etc.).
- * Support microphone broadcast voice and network background music mixing, and the background music mixing volume can be flexibly set.
- * Built-in 4 industrial-grade dedicated network audio decoding modules, built-in high-fidelity professional digital power amplifier, 500Wx4 constant voltage 100V/ constant resistance 4 ohm power output and 350Wx4 fixed resistance 8 ohm power output.
- * Support power amplifier short circuit, overload, and overheat protection functions, with LED status prompts.
- * Support 4 in 4 out audio matrix function, support touch screen for 4X4 arbitrary matrix switching and mixing output.
- * Support 4 in 4 out mute enable switch, support independent adjustment of the volume of each channel.
- * Support real-time display of 4 channel signal strength through dynamic graphics.
- * Built-in DSP audio processor, support 4-channel output signal frequency division processing, adjust the high-pass frequency, low-pass frequency, type, Q value, and number of segments.
- * Support 4 equalizers, support 8 bands of EQ per channel, and support adjustment of EQ frequency, gain, bandwidth, and type.
- * Support 4-channel digital limiter function to prevent distortion caused by excessive signal, affecting sound quality.
- * Support 8 scene pre-storage function, support choosing to load the scene, or save the current parameters to the specified scene.
- * Support remote firmware upgrade, firmware upgrade can be carried out through LAN without disassembling the machine, reducing maintenance personnel work.

Specification:

Model	TX-87500F
Network interface	Standard RJ45 network port
Transmission rate	100Mbps
Support protocol	DHCP, TCP, UDP, ICMP, IGMP, ARP and other standard network protocols
Audio format	MP3, WAV
Audio sampling rate	48KHz
Audio bit depth	16 bits
Input sensitivity	Balanced input $\pm 500\text{mVrms}$
Output power*	500W*4@4 Ω ; 350W*4@8 Ω ; 500W*4@100V
Overall power consumption**	300W
Frequency response	80Hz~16KHz, +1/-3dB
THD	$\leq 1\%$
SNR	$\geq 90\text{dB (A)}$
Separation	$\geq 75\text{dB, @1kHz}$
Output method	100V constant voltage/constant resistance 4-16 ohm output
Circuit protection	DC output, overload, over temperature, short circuit protection circuit
Working temperature	-10°C~45°C
Working humidity	20%~80% relative humidity, no condensation
Input power	220V~240V 50Hz/60Hz
Size	484×380×88mm
Weight	10.5kg

*This power is measured according to CEA-2006-B/CEA-490-A standard using 20ms pulse 1kHz sine wave at 1% total harmonic distortion

**Based on GB4943.1-2022 test method: measured under 1kHz sine wave rated load 1/8 power condition